

**AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
1 NATIONAL LIFE DRIVE, MAIN 2
MONTPELIER, VT 05620-3521**

**DRAFT INDIRECT
DISCHARGE PERMIT**

File Code: OQE-9-0049

Permit No.: ID-9-0049
PIN: RU96-0142

SECTION A - "ADMINISTRATION"

In compliance with provisions of 10 V.S.A. §1263, and in accordance with the following conditions, the permittee:

Edgemont Owners Association
P.O. Box 338
Killington, VT 05751

is authorized to discharge treated domestic sewage from an existing sewage treatment facility serving the Edgemont Condominiums to the Killington Ski Area's effluent storage lagoon (a.k.a. Mirror Lake) in Killington, Vermont.

A1. Permit Summary:

Expiration Date	September 30, 2020
Type of Waste	Domestic Sewage
Treatment System	Extended aeration, filtration and chlorination
Disposal System	Via Killington Ski Area's effluent storage lagoon and sprayfields
Town	Killington
Drainage Basin	Ottawaquechee River
Design Capacity	20,000 gallons per day (gpd)

A2. Compliance Schedule:

The following schedule summarizes the actions and requirements necessary for compliance with the conditions of this permit. The permittee shall complete the requirements in accordance with the dates indicated. See the designated section for specific details.

<u>Condition # & Description</u>	<u>Schedule Date</u>
A3. Apply for renewal of Indirect Discharge Permit	June 30, 2020
D3(A). Have a Vermont Registered professional engineer complete an inspection of the sewage collection and treatment system	Annually in April
D3(B). Submit Annual Inspection Report	Annually by July 1st
D3(C). Submit schedule for implementing engineer's recommendations	Annually by July 1st
D9. Submit operations report	Monthly
E2. Collect and analyze influent and effluent samples	As specified
E3. Submit results of monitoring	By the 15th of the second month following sampling

A3. Expiration Date:

This permit, unless revoked or amended, shall be valid until September 30, 2020 despite any intervening change in Water Quality Standards or the classification of receiving waters. Renewal of this Indirect Discharge Permit will be subject to all rules applicable at the time of application for renewal, including biological standards to determine significant alteration of aquatic biota.

The permittee shall apply for an Indirect Discharge Permit renewal by June 30, 2020. For the purposes of Title 3, an application for renewal of this indirect discharge permit will be considered timely if a complete application is received by the expiration date.

A4. Effective Date:

This permit becomes effective on October 1, 2015.

A5. Revocation:

The Secretary may revoke this permit in accordance with 10 V.S.A. §1267.

A6. Transfer of Permit:

This permit is not transferable without prior written approval of the Secretary. The permittee shall notify the Secretary immediately, in writing, before any sale, lease or other transfer of ownership of the property from which the permitted discharge originates. The proposed transferee shall make application for a permit to be reissued in their name. Failure to apply shall be considered a violation of this permit. Responsibility for compliance with the conditions of this permit shall be the burden of the permittee until such time as transfer of the permit to the transferee is complete. All application and operating fees must be paid in full prior to transfer of this permit. This permit shall be transferred only upon showing by the permittee or proposed transferee of compliance with the following conditions:

- a. The transferee shall be a legal entity, financially and technically competent to operate, inspect, maintain and replace the system.
- b. The transferee shall demonstrate that they have the legal authority to raise revenues for the proper operation, inspection, and maintenance of the system.
- c. The transferee shall provide a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee(s) to the Secretary.

A7. Minor Modifications of Permits:

The Secretary modify this permit without requiring a permit application, a public notice, or a public hearing to correct typographical errors, or to increase the monitoring frequency in accordance with Section F "Compliance Review."

A8. Indirect Discharge Rules:

This permit authorizes an existing indirect discharge

This indirect discharge was reviewed and qualified for an Indirect Discharge Permit in accordance with the Section 14-403(A) of the Indirect Discharge Rules for existing indirect discharges of sewage.

A9. Right of Agency to Inspect:

The permittee shall allow the Secretary or the Secretary's authorized representative upon the presentation of their credentials and at reasonable times:

- a. To enter upon permittee's premises in which an effluent source treatment or disposal system is located or in which any records are required to be kept under the conditions of the permit;
- b. To have access to and copy any records required to be kept under conditions of this permit;
- c. To inspect any monitoring equipment or method required in this permit;
- d. To sample any discharge of waste, groundwater or surface water; and
- e. To inspect any collection, treatment, pollution management, or disposal facilities required by this permit.

A10. Permit Availability:

A copy of the approved plans and this permit shall remain at the office of the permittee and, upon request, shall be made available for inspection by representatives of the Secretary.

A11. Minor Modifications to System:

Minor modifications of the engineering design which do not reduce the treatment effectiveness or increase the capacity of the system may be approved in writing without a permit amendment.

A11. Minor Modifications to System (continued):

Before making modifications to the treatment and/or disposal system the permittee shall submit plans to the Secretary for review and approval. These plans must be approved before any of the modifications or additions are made.

A12. Correction of Failed Systems:

The Secretary may, upon discretion, issue an Amendment to the Indirect Discharge Permit for the design and reconstruction of a failed wastewater disposal system where the replacement system design was not previously approved.

Before reconstruction of the failed system the permittee shall submit plans to the Secretary for review and approval. These plans must be approved before any reconstruction occurs. Due to the urgency of the need to correct failed disposal systems, the Secretary will process these Amendments as soon as possible.

A13. Operating Fees:

This indirect Discharge is subject to operating fees. The permittee shall submit the operating fees in accordance with procedures provided by the Secretary.

SECTION B "INDIRECT DISCHARGE"

B1. Location of Indirect Discharge:

The treatment facility is located on the south side of East Mountain Road in the Town of Killington, Vermont. The discharge from the wastewater treatment facility is to Killington Ski Area's effluent storage pond (a.k.a. Mirror Lake) located on the north side of East Mountain Road.

B2. Nature of Indirect Discharge:

The wastewater is treated by an activated sludge extended aeration package plant followed by chlorination and filtration. The treatment system has an approved design capacity of 20,000 gpd. This permit is for the existing facility with the existing connections.

B2. Nature of Indirect Discharge (continued):

The volume of effluent authorized by this permit that may be discharged to Killington Ski Area's effluent storage pond is limited to the volume generated by the existing 40 units with 74 bedrooms and 40 pull-out couches. No expansion or increase in sewage volume is allowed.

SECTION C "SYSTEM APPROVALS"

C1. Previous Approvals:

A Temporary Pollution Permit was issued on August 15, 1972 for the temporary discharge of the treated wastewater into a tributary of Roaring Brook. The treatment approved included the activated sludge facility with filtration and chlorination.

An Amended Temporary Pollution Permit (by letter) was issued on April 7, 1975 containing the schedule for designing and constructing the piping necessary for the discharge of Edgemont's treated wastewater into the Sherburne Corporation's (now owned by the SP Land Company, LLC) effluent storage lagoon.

SECTION D "SYSTEM OPERATION"

D1. General:

The wastewater collection and treatment system shall be operated at all times in a manner that will (1) not permit the discharge of sewage onto the surface of the ground; (2) not result in the direct discharge of sewage into the waters of the State; and (3) not result in a violation of Water Quality Standards.

D2. Influent and Effluent Limits:

The sewage treatment system shall be operated at all times to comply with the following influent limits:

<u>Parameter</u>	<u>30- Day Average</u>	<u>Maximum in 7 Day Period</u>	<u>Maximum Day</u>
Flow	N/A	N/A	20,000 gpd

D2. Influent and Effluent Limits (continued):

The sewage treatment system shall be operated at all times to comply with the following effluent limits:

<u>Parameter</u>	<u>30 Day Average</u>	<u>Maximum in 7 Day Period</u>	<u>Maximum Day</u>
Flow	NA	NA	20,000 gpd
BOD5	30 mg/l	45 mg/l	50 mg/l
TSS	30 mg/l	45 mg/l	50 mg/l
Escherichia coli	N/A	N/A	77 col/100 ml

D3. Annual Inspection, Report and Implementation Schedule:

A. Annual Inspection:

Annually during the month of April, the permittee shall engage a professional engineer registered in the State of Vermont to make a thorough inspection, evaluation, and report of the complete sewage collection and treatment system. The engineer's inspection shall include, but not be limited to the following:

1. verification of the proper operation of all lift station pumps, alarms, and controls in each pump station;
2. inspecting the entire collection system, removing manhole covers to observe the condition of the sewers and manholes, and noting any signs of inflow or excess infiltration;
3. verifying the proper operation of the activated sludge treatment facility and the chlorination and filtration units;
4. checking the calibration of the influent and effluent flow meters;
5. evaluating the performance of the sewage treatment facility over the past year against the permitted effluent limits; and
6. noting any necessary repairs or maintenance that needs to be performed.

B. Annual Inspection Report:

By July 1st each year, the permittee shall have a professional engineer submit an annual report including the following items:

1. a complete list of the items inspected and the results of the inspection;
2. a discussion of the recommended repairs and maintenance required;
3. an evaluation of all chemical analysis of influent and effluent; and
4. an evaluation of the past year's influent and effluent flow records to verify compliance with permit requirements.

C. Implementation Schedule:

By July 1st each year, the permittee shall notify the Secretary in writing stating how the engineer's recommendations are to be implemented, including a schedule for the recommended repair and maintenance items that have not yet been addressed.

D4. Sludge Disposal:

All sludge removed from the sewage treatment facility shall be disposed of at locations approved by the Residual Management Section of the Department of Environmental Conservation. The permittee shall comply with the reporting procedures specified in the Certification from the Residuals Management Section or approved Sludge Management Plan.

D5. Operator Certification:

The permittee is required to employ at all times a wastewater treatment plant chief operator with a minimum Grade II operator certificate from the Department of Environmental Conservation in accordance with the September 25, 2014 Wastewater Treatment Facility Operator Certification Rule. The permittee is also required to employ a back-up wastewater treatment plant operator with a minimum Grade II operator certificate for those times when the chief operator is unavailable.

The permittee shall notify the Secretary in writing of any change of chief operator or back-up operator.

D6. System Operation and Maintenance:

The wastewater collection and treatment system shall be operated and maintained at all times in a manner satisfactory to the Secretary and not to cause health hazards, contamination of drinking water supplies, groundwater and/or surface water.

D7. Reporting of Failures:

The permittee shall immediately report any failure of the wastewater collection or treatment system to the Secretary and to chief operator of the Killington Ski Area wastewater treatment facility, first by telephone within 24 hours of the failure and then in writing within 5 days of the failure. The written notice shall include a discussion of the actions taken or to be taken to correct the failure.

D8. Discharge Restrictions:

The permittee shall not allow any person to discharge or cause to be discharged anything other than sanitary wastewater to this collection and treatment facility.

D9. Operations Reports:

Daily operations data shall be compiled on report forms supplied or approved by the Secretary. The operations reports shall be submitted to the Secretary and to the chief operator of the Killington Ski Area wastewater treatment facility with the influent and effluent sampling results as required by Condition E3.

SECTION E "MONITORING"

E1. Quality Assurance/Quality Control Plan:

Monitoring shall be done in accordance with the Quality Assurance/Quality Control plan submitted to the Secretary.

The laboratory identified in the Quality Control/Quality Assurance Plan shall demonstrate successful performance for U.S. EPA check samples for all parameters and shall analyze any check samples provided by the Secretary. Failure to obtain an acceptable result for either the EPA check samples or those supplied by the Secretary may be a basis for requiring an alternate analytical laboratory.

E2. Influent and Effluent Monitoring:

The influent to the treatment system and effluent from the system shall be sampled and analyzed as follows:

Parameter	Sample Location	Units	Sample Type	Sample Frequency
Flow	Influent and Effluent	gallons per day	Total Daily Flow	Daily
Biological Oxygen Demand (5-day)	Influent and Effluent	mg/l	8-hour composite (1)	Monthly (2)
Total Suspended Solids	Influent and Effluent	mg/l	8-hour composite (1)	Monthly (2)
Settleable Solids	Influent and Effluent	ml/l	Grab	Daily
Escherichia coli	Effluent	col/100ml	Grab	Weekly (3)
pH	Effluent	S.U.	Grab	Daily
Total Chlorine	Effluent	mg/l	Grab	Daily
Total Kjeldahl Nitrogen	Effluent	mg/l	Grab	Quarterly (4)
Ammonia (as N)	Effluent	mg/l	Grab	Quarterly (4)
Nitrate (as N)	Effluent	mg/l	Grab	Quarterly (4)
Nitrite (as N)	Effluent	mg/l	Grab	Quarterly (4)
Total Phosphorous	Effluent	mg/l	Grab	Quarterly (4)
Total Dissolved Phosphorous	Effluent	mg/l	Grab	Quarterly (4)
Chloride	Effluent	mg/l	Grab	Quarterly (4)
Notes:				
(1) Composite samples shall be collected over a minimum 8-hour period, during the hours 6 a.m. to 6 p.m., unless otherwise approved.				
(2) Samples shall be taken in the first week of each month and shall be taken at a location prior to the aeration tanks for the influent and at the final effluent pump station for the effluent. If the concentration of BOD5 or TSS in the effluent is greater than 30 mg/l, additional monthly samples shall be taken to show compliance with the effluent limits in Condition D2.				
(3) Samples shall be taken at the effluent pump station.				
(4) Quarterly samples shall be taken in the months of March, June, September and December.				

E3. Influent and Effluent Sampling Results:

The results of the influent and effluent analyses shall be submitted to the Secretary prior to the 15th day of the second month following the date of sampling. The results shall also be submitted to the chief operator of the Killington Ski Area wastewater treatment plant.

E4. Miscellaneous:

If the permittee monitors any required parameter set forth in this permit for this treatment system more frequently or at additional locations outside the treatment facility than required by this permit, the results of such monitoring shall be submitted to the Secretary and reported on the Operations Report form.

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years or longer if requested by the Secretary. Records shall include laboratory bench sheets showing exact location, time and composites of sample as well as analytical procedures used, interim results obtained and all calculations supporting the reported test results.

SECTION F "COMPLIANCE REVIEW"

If the results of monitoring the effluent show exceedances of effluent limits, the Secretary may increase the frequency of monitoring, or require monitoring of the groundwater and surface water. If increased monitoring and analysis indicates that a violation of effluent limits or the Vermont Water Quality Standards is occurring, or is likely to occur, the Secretary may require the permittee to take appropriate corrective actions to eliminate or reduce the possibility of a violation.

The issuance of this permit, ID-9-0049, to the Edgemont Owners Association by the Secretary relies upon the data, designs, judgment and other information supplied by the applicant, consultants and other experts who have participated in the preparation of the application. The Secretary makes no assurance that this system will meet the performance objectives of the applicant and no warranties or guarantees are given or implied.

SECTION G "EFFECTIVE DATE"

This Indirect Discharge Permit, ID-9-0049, issued to Edgemont Owners Association for the discharge of treated wastewater from the Edgemont Wastewater Treatment Facility to the Killington Ski Area's effluent storage lagoon, located in Killington, Vermont is effective on October 1, 2015.

Alyssa B. Schuren, Commissioner
Department of Environmental Conservation

By: _____ Date: _____
Christine Thompson, Director
Drinking Water and Groundwater Protection Division